

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	10/5929999	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/09 17:17
S2	1	10/592999	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/09 17:17
S3	0	"near-Gaussian shape of spatial current density"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/09 17:21
S4	1	"near-Gaussian shape" near3 current	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/09 17:22
S5	8	"near-gaussian shape"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/09 17:23
S6	1847	"gaussian shape"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/09 17:25
S7	2	("near-gaussian" or "near gaussian") same vcsel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/09 18:00

S8	2	("near-gaussian" or "near gaussian") same laser same current and (vcSEL or vertical adj2 cavity adj2 laser)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/09 18:01
S9	55	gaussian same laser same current and (vcSEL or vertical adj2 cavity adj2 laser)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/09 18:02
S10	17	gaussian with current same laser and (vcSEL or vertical adj2 cavity adj2 laser)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/09 18:03
S11	344	current adj2 aperture and (vcSEL or vertical adj2 cavity adj2 laser)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/09 18:20
S12	13	((("6021146") or ("6026111") or ("6515305") or ("5729566") or ("5719891") or ("6535537")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/09 18:21
S13	67	("5719891").URPN.	USPAT	OR	OFF	2008/06/09 18:23
S14	3	("20040099857"   "5493577"   "5719891").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 18:37
S15	3	("5245622"   "5753941"   "5838715").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 18:38
S16	11	("5115441"   "5258316"   "5258990"   "5262360"   "5327448"   "5331654"   "5331658"   "5337327"   "5343487"   "5353295"   "5359618").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 18:41
S17	152	("5493577").URPN.	USPAT	OR	OFF	2008/06/09 18:41
S18	4	("20020134987"   "20020137245"   "5493577"   "5696389").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 19:08

S19	11	("5115441"   "5258316"   "5258990"   "5262360"   "5327448"   "5331654"   "5331658"   "5337327"   "5343487"   "5353295"   "5359618").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 19:09
S20	4	("5331654"   "5493577"   "5879961"   "5881085").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 19:14
S21	9	("4902644"   "5256596"   "5317587"   "5328854"   "5343487"   "5412680"   "5457328"   "5478774"   "5493577").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 19:15
S22	4	("5034092"   "5493577"   "5633527"   "5881085").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 19:19
S23	9	("4902644"   "5256596"   "5317587"   "5328854"   "5343487"   "5412680"   "5457328"   "5478774"   "5493577").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 19:38
S24	24	("5245622"   "5256596"   "5258316"   "5446752"   "5493577"   "5557627"   "5719891"   "5729566"   "5812577"   "5822356"   "5881085"   "5893722"   "5903590"   "6064683"   "6144682"   "6185241"   "6208007"   "6534331"   "6542527"   "6618414"   "6680963"   "6751245"   "6882673"   "6904072").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 19:41
S25	6	("20010050934"   "5719891"   "5985686"   "6117699"   "6174749"   "6795457").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/09 19:44
S26	23	(US-20070242716-\$ or US-20020134987-\$ or US-20010050934-\$).did. or (US-7332744-\$ or US-5493577-\$ or US-6678307-\$ or US-6658040-\$ or US-6636542-\$ or US-5881085-\$ or US-5879961-\$ or US-6570905-\$ or US-6535541-\$ or US-6493371-\$ or US-6487231-\$ or US-6487230-\$ or US-6449300-\$ or US-6317446-\$ or US-6014400-\$ or US-5903588-\$ or US-	US-PGPUB; USPAT	OR	OFF	2008/06/10 13:37

		7177339-\$ or US-6882673-\$ or US-6993055-\$ or US-6583033-\$).did.				
S27	1	S26 and gaussian	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 13:37
S28	21	("near-gaussian" or "near gaussian") and vcsel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 13:46
S29	4	((("20020154671") or ("20030218752")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 14:34
S30	4	("5493577"   "5500868"   "5633527"   "5881085").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/10 16:49
S31	666	vcsel and (aperture near5 (different or smaller or larger))	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/10 16:50
S32	117	vcsel and (aperture near5 (different or smaller or larger)) same oxid\$5	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/10 16:51
S33	3	("5493577"   "5719891"   "5881085").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/10 16:52
S34	24	("5245622"   "5256596"   "5258316"   "5446752"   "5493577"   "5557627"   "5719891"   "5729566"   "5812577"   "5822356"   "5881085"   "5893722"   "5903590"   "6064683"   "6144682"   "6185241"   "6208007"   "6534331"   "6542527"   "6618414"   "6680963"   "6751245"   "6882673"   "6904072").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/10 17:02
S35	1	"5340998".PN.	USPAT; USOCR	OR	OFF	2008/06/10 17:08
S36	63	vcsel and (current adj2 aperture near5 (different or smaller or larger))	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/10 17:09

S37	9	vcsel and current adj2 aperture same size same distance	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/10 17:47
S38	6	("20010050934"   "5719891"   "5985686"   "6117699"   "6174749"   "6795457").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/10 17:51
S39	2	vcsel and oxide adj2 aperture same size same distance	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/10 17:51
S40	7	("2001/0043629").URPN.	USPAT	OR	OFF	2008/06/10 17:53
S41	206	(vcsel or vertical adj2 emitting adj2 laser) and (dbr or mirror or bragg adj2 reflector) with oxid\$5 with aperture	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/10 18:06
S42	1	"6636542".pn. and 21a	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/10 18:18
S43	1	"5633527".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/10 19:35
S44	13	("3763372"   "3981023"   "4025157"   "4108622"   "4339689"   "4956000"   "5073041"   "5126875"   "5181220"   "5223049"   "5262360"   "5359618"   "5493577").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/10 19:36
S45	83	("5633527").URPN.	USPAT	OR	OFF	2008/06/10 19:36
S46	20	vcsel and (double or two) adj2 aperture	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 20:29
S47	1	vcsel and dual adj2 aperture	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 20:31
S48	5	("5262360"   "5493577"   "5896408"   "6014395"   "6208681").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/10 20:41

S49	0	vertical adj2 emitting adj2 laser and (double or two) adj2 aperture	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 20:43
S50	0	vertical adj2 emitting adj2 laser and (double or two) adj2 aperture	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 20:43
S51	235	(372/50.124).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 20:44
S52	0	S51 and (double or two) adj2 (aperture or current adj2 inection or current adj path)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 20:44
S53	2	"20030007528"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 20:48
S54	4	("4872744"   "5637883"   "6198853"   "6271943").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/10 20:56
S55	2	("5764671"   "5809051").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/10 20:59
S56	194	current adj2 layer same vcsel	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/10 21:01
S57	170	S56 not S41	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/10 21:01
S58	1	"5034958".PN.	USPAT; USOCR	OR	OFF	2008/06/11 13:55

S59	180	("3560275"   "3878105"   "3974514"   "3978428"   "4033796"   "4110661"   "4249967"   "4309670"   "4347611"   "4376946"   "4573163"   "4633476"   "4636821"   "4675875"   "4694459"   "4730326"   "4740481"   "4745462"   "4757509"   "4764936"   "4766470"   "4772082"   "4819048"   "4847844"   "4852110"   "4853936"   "4856014"   "4856017"   "4942585"   "4943970"   "4949350"   "4949351"   "4958202"   "4967241"   "4974036"   "4982409"   "4990466"   "4991179"   "5018157"   "5029175"   "5033053"   "5033054"   "5034958"   "5038356"   "5040032"   "5043775"   "5045498"   "5050155"   "5063569"   "5068868"   "5088099"   "5115441"   "5115442"   "5128955"   "5132982"   "5136603"   "5143863"   "5148267"   "5155560"   "5159603"   "5160492"   "5164329"   "5206871"   "5216686"   "5231642"   "5233204"   "5237581"   "5239189"   "5245622"   "5247167"   "5249245"   "5255278"   "5256596"   "5258316"   "5258990"   "5266503"   "5272375"   "5274655"   "5285466"   "5289018"   "5293392"   "5301201"   "5311533"   "5317587"   "5328854"   "5331654"   "5341002"   "5343487"   "5345462"   "5351257"   "5357591"   "5359447"   "5359618"   "5363393"   "5379312"   "5387543"   "5388120"   "5397739"   "5397917"   "5399885"   "5400356"   "5403774"   "5412680"   "5416044"   "5420880"   "5422901"   "5426657"   "5436192"   "5438586"   "5442203"	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/11 14:37
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		"5448536"   "5457328"   "5465266"   "5468656"   "5475701"   "5485014"   "5491712"   "5493577"   "5513204"   "5530715"   "5554061"   "5568499"   "5568504"   "5574743"   "5577064") .PN. OR ("5594751"   "5596595"   "5606572"   "5638392"   "5657339"   "5671243"   "5696784"   "5706306"   "5708669"   "5708674"   "5712865"   "5717707"   "5719893"   "5719894"   "5732099"   "5732103"   "5764676"   "5766981"   "5784398"   "5796769"   "5796771"   "5812576"   "5812578"   "5815524"   "5825796"   "5831960"   "5832017"   "5832019"   "5838707"   "5848086"   "5877519"   "5883912"   "5896408"   "5898722"   "5903590"   "5914973"   "5917848"   "5943359"   "5956363"   "5956364"   "5963576"   "5966399"   "5978408"   "5985686"   "6026108"   "6118799"   "6160834"   "6169757"   "6185241"   "6195381"   "6252894"   "6256330"   "6304588"   "6577658") . PN.				
S60	173	("3560275"   "3878105"   "3974514"   "3978428"   "4033796"   "4110661"   "4249967"   "4309670"   "4347611"   "4376946"   "4573163"   "4633476"   "4636821"   "4675875"   "4694459"   "4730326"   "4740481"   "4754462"   "4757509"   "4764936"   "4766470"   "4772082"   "4819048"   "4847844"   "4852110"   "4853936"   "4856014"   "4856017"   "4942585"   "4943970"   "4949350"   "4949351"   "4958202"   "4967241"   "4974036"   "4982409"   "4990466"   "4991179"	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/11 14:37



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"5033053"	"5033054"
"5034958"	"5038356"
"5040032"	"5043775"
"5045498"	"5050155"
"5063569"	"5068868"
"5088099"	"5115441"
"5115442"	"5128955"
"5132982"	"5136603"
"5143863"	"5148267"
"5155560"	"5159603"
"5160492"	"5164329"
"5206871"	"5216686"
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"5237581"	"5239189"
"5245622"	"5247167"
"5249245"	"5255278"
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"5258990"	"5266503"
"5272375"	"5274655"
"5285466"	"5289018"
"5293392"	"5301201"
"5311533"	"5317587"
"5328854"	"5331654"
"5341002"	"5343487"
"5345462"	"5351257"
"5359447"	"5359618"
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"5397739"	"5397917"
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"5568499"	"5568504"
"5574743"	"5577064"
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("5606572"	"5638392"
"5657339"	"5671243"
"5696784"	"5706306"
"5708669"	"5708674"
"5712865"	"5717707"
"5719893"	"5719894"
"5732099"	"5732103"
"5764676"	"5766981"
"5784398"	"5796769"
"5796771"	"5812576"
"5812578"	"5815524"
"5831960"	"5832017"

		"5832019"   "5838707"   "5848086"   "5883912"   "5896408"   "5898722"   "5903590"   "5914973"   "5917848"   "5943359"   "5956363"   "5956364"   "5963576"   "5966399"   "5978408"   "5985686"   "6026108"   "6118799"   "6160834"   "6169757"   "6195381"   "6252894"   "6256330").PN.				
S61	2	("5764671"   "5809051").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/11 14:42
S62	60	("4943970").URPN.	USPAT	OR	OFF	2008/06/11 15:28
S63	11	("5115442"   "5179567"   "5245622"   "5258990"   "5262360"   "5373522"   "5416044"   "5493577"   "5550081"   "5719891"   "5729566").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/11 16:04
S64	37	("5903588").URPN.	USPAT	OR	OFF	2008/06/11 16:05
S65	2	"20030007528"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 17:07
S66	1	p adj3 aperture same n adj3 aperture and vcsel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 17:32
S67	321	(vertical adj2 emitting adj2 laser or vcsel) and (current adj2 (layer or region)) with (dbr or reflector or mirror)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 17:38
S68	311	S67 not S60	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 17:38

S69	183	(vertical adj2 emitting adj2 laser or vcsel) and (current adj2 (layer or region)) near5 (dbr or reflector or mirror)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 18:46
S70	609	(vertical adj2 emitting adj2 laser or vcsel) and oxid\$5 near6 (dbr or reflector or mirror)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 18:46
S71	168	(vertical adj2 emitting adj2 laser or vcsel) and current with oxid\$5 near6 (dbr or reflector or mirror)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 18:48
S72	96	S71 not S68	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 19:02
S73	1	"7085301".pn. and oxid\$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 19:10
S74	1	"5491710".pn. and "28"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/12 11:59
S76	1	"7085301".pn. and pairs	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 12:18
S77	1	"7085301".pn. and "20" and "18"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 12:19

S78	0	"7085301".pn. and ".mu. m"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 12:54
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